Tuesday - June 4th

Status of CHESS - Sol Gruner, Director & Joel Brock, Associate Director
ERL Update - Bruce Dunham, Project Manager, ERL
CHESS Initiatives - Ernie Fontes, Associate Director
Status of MacCHESS - Marian Szabonyi, Director MacCHESS

Stephen Meisburger (Cornell University)
"Introducing cryo-SAXS: solution scattering from nanoliter volumes"

Nozomi Ando (Massachusetts Institute of Technology)
"Radical allostery in a radical protein"

Katsuhiko Murakami (Pennsylvania State University)
"Structural basis of rifampicin resistance by bacterial RNA polymerase"

Eaton Lattman, (Hauptman Woodward)
Jin Wang, (Advanced Photon Source)
"Ultrafast x-ray imaging of fuel sprays: fluid dynamics on time scale from microseconds to nanoseconds"

After Dinner Tribute to Sol Gruner, CHESS Director

Wednesday - June 5th

Poster Prize Winner Awards
Presentations by 2013 “Best Student Paper” Awardees

WORKSHOP I:
MEMBRANE PROTEINS

Toshi Kawate
Cornell University
"Tricks and pitfalls in eukaryotic membrane protein crystallization"

Olga Boudker
Cornell University, Weill Medical College
"Crystallographic study of the transport cycle intermediates of a glutamate transporter homologue"

Simon Li
Yale University
"Crystal structure of glycoprotein E2 from bovine viral diarrhea virus"

Reinhard Grisshammer
National Institutes of Health
"Structure of the agonist-bound neurotensin receptor NTS1"

WORKSHOP II:
REAL TIME, IN SITU, IN OPERANDO STUDIES

Joost Vlassak
Harvard University
"Scanning nanocalorimetry combined with time-resolved x-ray diffraction - a new tool for studying transformations in complex materials systems"

Jay Schuren
Air Force Research Laboratory
"Changing the paradigm for engineering design by merging high energy x-ray data with materials modeling"

John Smedley
Brookhaven National Lab
"In-situ analysis of alkali antimonide cathode growth"

Joel Brock
Cornell University
"Structure of the SrTiO3 (001) surface during photo-assisted water splitting"

To register:
www.chess.cornell.edu